



A.D. 1859, *20th May.* N° 1243.

S P E C I F I C A T I O N

OF

HENRY NEWMAN.

ARTIFICIAL TEETH, &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.





---

A.D. 1859, 20th *MAY*. N° 1243.

---

Artificial Teeth, &c.

---

**LETTERS PATENT** to Henry Newman, of Liverpool, in the County of Lancaster, Dentist, for the Invention of “**IMPROVEMENTS IN THE CONSTRUCTION OF ARTIFICIAL TEETH, AND IN THE MODE OR MANNER OF AFFIXING THE SAME TO THE FRAME.**”

Sealed the 18th November 1859, and dated the 20th May 1859.

---

**PROVISIONAL SPECIFICATION** left by the said Henry Newman at the Office of the Commissioners of Patents, with his Petition, on the 20th May 1859.

I, HENRY NEWMAN, of Liverpool, in the County of Lancaster, Dentist, do  
5 hereby declare the nature of the said Invention for “**IMPROVEMENTS IN THE CONSTRUCTION OF ARTIFICIAL TEETH, AND IN THE MODE OR MANNER OF AFFIXING THE SAME TO THE FRAME,**” to be as follows :—

I make the fronts of artificial teeth of porcelain, or any of the other light-colored substances at present used, and the backs of metal ; I fasten these parts  
10 together by screws, rivetts, or other mechanical contrivance, or by an adhesive material. In the metal or back of each tooth for affixing is an aperture



---

*Newman's Improvements in the Construction of Artificial Teeth, &c.*

---

through which is passed longitudinally or otherwise a stud or pin fastened in the frame. Teeth so made can be easily repaired, and they are not liable to be broken by sudden contact with a hard substance.

---

**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Henry Newman in the Great Seal Patent Office on the 5 19th November 1859.

**TO ALL TO WHOM THESE PRESENTS SHALL COME**, I, HENRY NEWMAN, of Liverpool, in the County of Lancaster, Dentist, send greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twentieth day of May, in the year of our Lord 10 One thousand eight hundred and fifty-nine, in the twenty-second year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Henry Newman, Her special license that I, the said Henry Newman, my executors, administrators, and assigns, or such others as I, the said Henry Newman, my executors, administrators, and assigns, should at 15 any time agree with, and no others, from time to time and all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for “**IM-PROVEMENTS IN THE CONSTRUCTION OF ARTIFICIAL TEETH, AND IN THE MODE OR 20 MANNER OF AFFIXING THE SAME TO THE FRAME,**” upon the condition (amongst others) that I, the said Henry Newman, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same 25 to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE**, that I, the said Henry Newman, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the follow- 30 ing statement (that is to say) :—

My improvements in dentistry relate to the construction and mode of affixing to the frame artificial teeth ; by the former they are strengthened or supported, and enabled to resist or sustain sudden pressure or contact with hard substances ; by the latter any or every tooth in a case can be removed 35



---

*Newman's Improvements in the Construction of Artificial Teeth, &c.*

---

for repair without moving the others or "passing through the fire." A comfortable and neat fit, with great strength, are the advantages of this Invention.

I make the fronts or that part of the teeth shewn, when in use, of porcelain  
5 or any of the other substances at present used, and the backs of metal or other hard and tenacious material; these I fasten together by various mechanical contrivances, say, by the pins, usually moulded or cast in teeth, screws, rivets, part of the back cast or moulded into the fronts, or by an adhesive material. The backs consist of a plate, with an aperture, forming a short tube made therein,  
10 or fastened thereto, or simply a plain tube; the plate may cover the whole or part of the tooth, and the tube, made of any shape or configuration to suit the mould, may be shortened at either end. The frame or palate has studs or pins fastened therein, which are made of the same shape and configuration as the apertures or tubes on the back of the teeth; by passing these studs through the  
15 apertures referred to, and rivetting or otherwise fastening, the teeth will be affixed on the frame and ready for use without further support. Where gutta percha, india-rubber, or other flexible frames or palates are used the same construction is retained, either with metal backs, tubes, and stubs, or by having a tube formed of the material used fastened to the back of the tooth, and a  
20 metal or other inflexible stud.

These my improvements will be better understood, reference being had to the Drawings accompanying this, and to the letters of reference thereon. In all the views the same letters of reference represent the same parts.

Fig. 1 represents a back view, Fig. 2 a side view, Fig. 3 a plan, and Fig. 4  
25 a vertical section of one of my improved teeth, with the plate entirely covering the back thereof, and the tube partially shortened; Fig. 5 a back view, and Fig. 6 a vertical section, of another modification, the tube being fastened to the pins usually cast in teeth; Fig. 7 a back view, and Fig. 8 a vertical section of another modification, the plate partially covering the back of the  
30 tooth and tube, the latter being embedded in the front part; and Fig. 9, a front view of a set, with two teeth removed, shewing the studs for affixing to the frame. *a* represents the porcelain or other light-colored front; *b*, the plate; *c*, the tube; *d*, the frame; *e*, the stud.

Although I have described the nature and particulars of my said Invention,  
35 and the manner of performing the same under several modifications, still I do not confine myself thereto, as such may be varied and further modified without departing from the principle of the same; but what I claim as my Invention, and which to the best of my knowledge and belief has not been hitherto used

---

*Newman's Improvements in the Construction of Artificial Teeth, &c.*

---

within the realm is, constructing artificial teeth with plates and apertures or tubes at the back, and fastening the same to the frame by studs or pins passing into or through the apertures or tubes, for the purposes specified, and as herein described.

In witness whereof, I, the said Henry Newman, have hereunto set my 5  
hand and seal, this Eighteenth day of November, in the year of our  
Lord One thousand eight hundred and fifty-nine.

HENRY NEWMAN. (L.S.)

In the presence of

JOHN T. KING, Patent Agent,

4, Clayton Square,

Liverpool.

10

---

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1859.



55

FIG. 9.

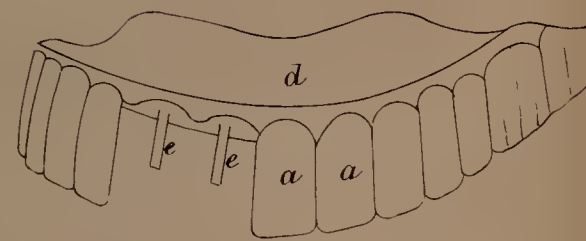


FIG. 1.

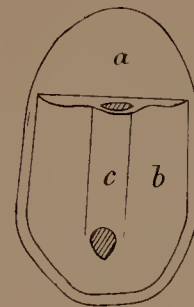


FIG. 2.

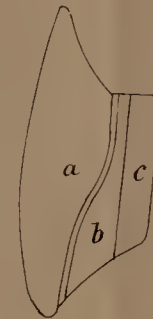


FIG. 5.

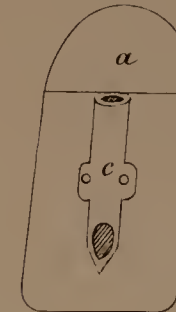


FIG. 6.

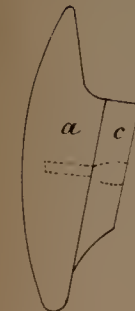


FIG. 4.

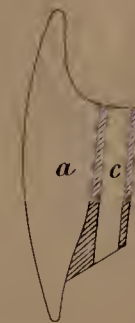


FIG. 8.

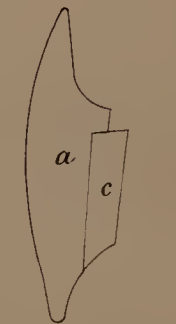


FIG. 7.

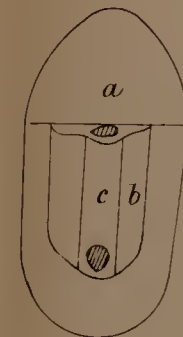
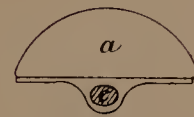


FIG. 3.



The filed drawing is colored.

Drawn on Stone by Malby & Sons.

